

Coaxial

Power Splitter/Combiner

ZC9PD-1000

9 Way-0° 50Ω 800 to 1000 MHz

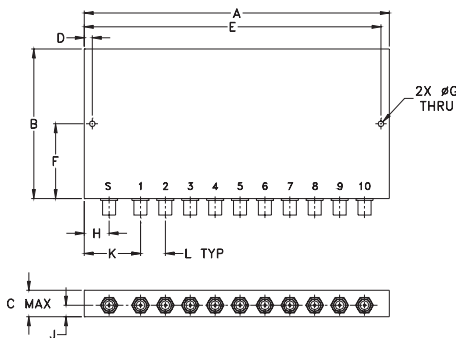
Maximum Ratings

| | |
|-----------------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| Power Input (as a splitter) | 10W max. |
| Internal Dissipation | 1.5W max. |

Coaxial Connections

| | |
|--------------------|---------------|
| SUM PORT | S(COM) |
| PORT 1,2,3,.....,9 | 1,2,3,.....,9 |

Outline Drawing



Outline Dimensions (inch/mm)

| A | B | C | D | E | F | |
|--------|-------|-------|-------|--------|-------|-------|
| 6.13 | 3.00 | .53 | .162 | 5.962 | 1.500 | |
| 155.70 | 76.20 | 13.46 | 4.11 | 151.43 | 38.10 | |
| G | H | J | K | L | | wt |
| .116 | .50 | .25 | 1.13 | .50 | | grams |
| 2.95 | 12.70 | 6.35 | 28.70 | 12.70 | | 207 |

Features

- low insertion loss, 0.6 dB typ.
- high isolation, 30 dB typ.
- excellent output VSWR, 1.1:1 typ.
- rugged shielded case

Applications

- cellular
- UHF
- instrumentation
- signal processing



CASE STYLE: AB204

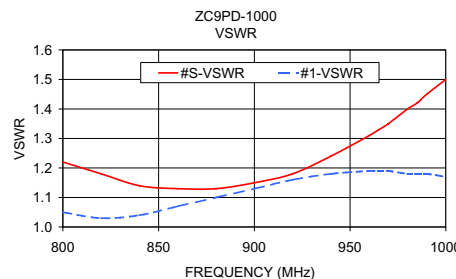
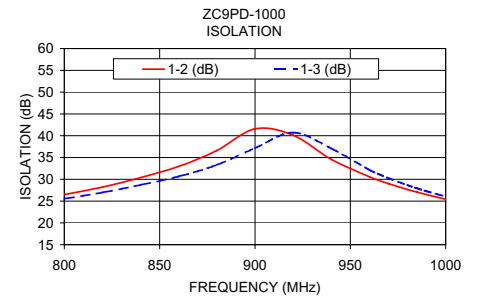
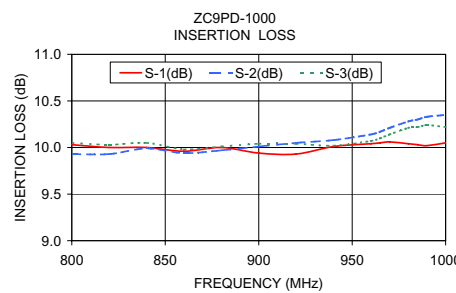
| Connectors | Model | Price | Qty. |
|------------|--------------|----------|-------|
| SMA | ZC9PD-1000-S | \$169.95 | (1-9) |

Electrical Specifications

| FREQ. RANGE (MHz) | ISOLATION (dB) | | INSERTION LOSS (dB) ABOVE 9.6 dB | | PHASE UNBALANCE (Degrees) | AMPLITUDE UNBALANCE (dB) | VSWR (:1) | | | |
|-------------------|----------------|------|----------------------------------|------|---------------------------|--------------------------|-----------|------|------|------|
| | Typ. | Min. | Typ. | Max. | | | S | | OUT | |
| f_L - f_U | | | | | Max. | Max. | Typ. | Max. | Typ. | Max. |
| 800-1000 | 30 | 20 | 0.6 | 1.2 | — | 0.6 | 1.22 | 1.6 | 1.11 | 1.3 |

Typical Performance Data

| Freq. (MHz) | Insertion Loss (dB) | | | Amplitude Unbalance (dB) | Isolation (dB) | | Phase unbalance (deg.) | VSWR S | VSWR 1 | VSWR 3 |
|-------------|---------------------|-------|-------|--------------------------|----------------|-------|------------------------|--------|--------|--------|
| | S-1 | S-2 | S-3 | | 1-2 | 1-3 | | | | |
| | 800.00 | 10.03 | 9.93 | | 10.05 | 0.13 | | | | |
| 820.00 | 10.00 | 9.93 | 10.03 | 0.12 | 28.21 | 27.00 | 13.90 | 1.18 | 1.03 | 1.06 |
| 840.00 | 10.00 | 9.99 | 10.05 | 0.10 | 30.39 | 28.73 | 14.29 | 1.14 | 1.04 | 1.06 |
| 860.00 | 9.96 | 9.94 | 9.98 | 0.09 | 32.96 | 30.67 | 14.78 | 1.13 | 1.07 | 1.06 |
| 880.00 | 10.00 | 9.97 | 10.01 | 0.10 | 36.61 | 33.31 | 15.23 | 1.13 | 1.10 | 1.06 |
| 900.00 | 9.94 | 10.01 | 10.04 | 0.18 | 41.57 | 37.17 | 15.43 | 1.15 | 1.13 | 1.06 |
| 920.00 | 9.93 | 10.05 | 10.04 | 0.22 | 40.12 | 40.73 | 15.59 | 1.18 | 1.16 | 1.06 |
| 940.00 | 10.01 | 10.08 | 10.02 | 0.22 | 34.57 | 37.08 | 16.14 | 1.24 | 1.18 | 1.07 |
| 960.00 | 10.04 | 10.14 | 10.07 | 0.26 | 30.58 | 32.17 | 16.57 | 1.31 | 1.19 | 1.07 |
| 965.00 | 10.05 | 10.17 | 10.10 | 0.26 | 29.75 | 31.19 | 16.67 | 1.33 | 1.19 | 1.07 |
| 970.00 | 10.06 | 10.21 | 10.14 | 0.28 | 29.00 | 30.26 | 16.74 | 1.35 | 1.19 | 1.07 |
| 980.00 | 10.04 | 10.28 | 10.21 | 0.38 | 27.66 | 28.66 | 16.78 | 1.40 | 1.18 | 1.07 |
| 985.00 | 10.03 | 10.30 | 10.22 | 0.41 | 27.05 | 27.95 | 16.71 | 1.42 | 1.18 | 1.07 |
| 990.00 | 10.02 | 10.33 | 10.24 | 0.44 | 26.49 | 27.28 | 16.71 | 1.45 | 1.18 | 1.07 |
| 1000.00 | 10.05 | 10.35 | 10.22 | 0.43 | 25.42 | 26.06 | 16.79 | 1.50 | 1.17 | 1.07 |



electrical schematic



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED

minicircuits.com

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

REV. OR
M95083
ZC9PD-1000
081119